

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **62110990 A**

(43) Date of publication of application: **22.05.87**

(51) Int. Cl.  
**D06N 3/00**  
**D04H 1/42**  
**D04H 1/46**

(21) Application number: **80249597**

(22) Date of filing: **06.11.85**

(71) Applicant: **KURARAY CO LTD**

(72) Inventor: **KANEHIRA HIROSHI**  
**ENOMOTO YUYA**

**(54) PRODUCTION OF SHEETS WITH LEATHER-LIKE TOUCH**

**(57) Abstract:**

**PURPOSE:** An entangled nonwoven fabric which is composed of specific shrinkable polyester fibers and nonshrinkable polyester fibers is allowed to shrink in a prescribed amount, crystallized, impregnated with an elastic polymer, coagulated and finished, e.g., dyed to give the titled fiber sheet.

**CONSTITUTION:** An undrawn, high shrinking fiber A of polyethylene terephthalate polymer, which has been made by spinning at 2,500W/4,100m/min, and has at least 20%

shrinkage in 70°C water and less than 20% crystallinity is mixed with a nonshrinking polyester fiber of less than 10% shrinkage and more than 20% crystallinity, at a weight ratio of 90/10W/10/90 and they are entangled to each other to give a nonwoven fabric. The fabric is treated with hot water to effect 20W/75% area shrinkage, and heat-treated so that the crystallinity of the fiber A reaches 30% to give a fiber sheet of 1±0.1mm thickness and 100W/170° resilience angle. The sheet is impregnated with polyurethane, coagulated, dyed, surface-patterned, softened to a leather-like fiber sheet with oxide-like toughness.

**COPYRIGHT:** (C)1987,JPO&Japio